



963312

October 15, 2020

Reference No. 11208393-201

Mr. Timothy D. Hoffman
Disnmore & Shohl
1 S. Main St. Suite 1300
Dayton, Ohio
45402

Mr. Jon Schmiedebusch
S&J Precision
2015 Dryden Road
Moraine, Ohio
45439

Mr. Mark Fornes
Mark Fornes Realty Inc.
2080 Byers Road
Miamisburg, Ohio
45342

Dear Messrs. Hoffman, Schmiedebusch, and Fornes:

**Re: Summary of Vapor Intrusion Sampling Results
S&J Precision – Building 12
South Dayton Dump and Landfill Site, Moraine, Ohio**

GHD prepared this letter to inform you of the results of the vapor intrusion (VI) sampling completed at the subject property (2015 Dryden Road) in 2020. VI is the migration of volatile chemicals from the subsurface into overlying buildings. VI is a potential concern at any building located near soil, groundwater, or soil vapor containing solvent- or petroleum-related compounds that may volatilize. In 2012, GHD began VI studies in the area as part of the investigation of the South Dayton Dump and Landfill (SDDL) Site. GHD is conducting this work on behalf of the companies that have responded to United States Environmental Protection Agency (USEPA) requests to conduct Remedial Investigation (RI) and VI studies associated with the Site (Respondents). USEPA is directing and overseeing these projects.

Based on the results of the VI studies performed in the area, a sub-slab depressurization system (SSDS) was installed in your building and has been operating since 2013. The SSDS withdraws a small amount of air from beneath the building to create a negative pressure so that vapors do not migrate into the building (similar to a radon system in a home). The monitoring program includes collection of sub-slab (SS) soil gas samples (from probes installed under the building floor) and indoor air (IA) samples at multiple locations for laboratory analysis of volatile organic compounds (VOCs). The sampling serves to document the concentrations of VOCs beneath the building and to demonstrate that air within the building meets VI standards set by the State of Ohio. Vacuum measurements from beneath the building floor slab are also collected to demonstrate the SSDS is working properly. The SS and IA sample locations within your building (designated as Building 12-S&J) are shown on Figure 1. Note that Figure 1 also shows the building layout and sample locations/results for the portion of the building occupied by Overstreet Painting.

GHD

9033 Meridian Way West Chester Ohio 45069 USA
T 513 942 4750. F 513 942 8585. W www.ghd.com

REGISTERED COMPANY FOR
ISO 9001
ENGINEERING DESIGN



2020 Sampling Results

During the most recent sampling event conducted on July 14, 2020, GHD collected four IA samples, one SS sample, and one outdoor ambient air sample. The 2020 analytical results are provided in Table 1 (highlighted in blue) along with results of all samples collected since 2012. Table 1 also shows the screening levels established by the Ohio Department of Health (ODH), which are used for comparison to the detected concentrations in the samples. As shown in Table 1, one SS sample collected during the 2020 sampling event contained Trichloroethene (TCE) at a concentration greater than the ODH SS screening level. However, the concentration of TCE in IA samples were either not detected or detected at concentrations less than the ODH screening level, indicating that potential VI is being mitigated. While some VOCs were detected in July 2020 IA samples, none of the VOCs were detected at concentrations greater than the ODH IA screening levels for non-residential use. These findings are consistent with previous monitoring results.

Additional Information

Please note that the SS screening levels shown in Table 1 are calculated based on an attenuation factor (AF) to account for the mixing and ventilation that occurs when vapors enter the IA¹. For this reason, an exceedance of these values is used as an indicator of potential impact to IA, which requires further assessment. The SSDS was installed and operated in response to the VOC detections in both SS and IA samples collected in 2012.

As part of the monitoring program, GHD measured vacuum readings at each SS soil vapor probe locations to determine if the SSDS is depressurizing the SS zone beneath the building. A vacuum reading of negative 0.004 inches of water column (" w.c.) indicates that the SSDS is successfully depressurizing the building SS. The latest vacuum readings, measured on July 13, 2020, are presented on Figure 1. The vacuum readings show that vacuum measured at all SS probes meet or exceed the target vacuum of -0.004" w.c., indicating the building SS is successfully being depressurized. This finding is consistent with previous monitoring results.

GHD completed quarterly inspections of the SSDS exterior blowers and interior system components to determine if the system is working properly. Inspections completed on March 18, 2020, June 29, 2020, and September 10, 2020 indicated vacuum readings at each extraction point blower were within the target range of -0.5 to -4.0" w.c. and that the SSDS is functioning properly.

¹ The ODH screening levels shown in Table 1 were calculated based on an attenuation factor (AF) equal to 10, reflective of 2002 USEPA guidance. USEPA revised and issued final VI guidance in 2015 which utilizes an AF of 33 for residential buildings; see "OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Source to Indoor Air (USEPA, June 2015) (Final Vapor Intrusion Guidance)". The use of AF=10 in the original assessment (2012) and included in Table 1 is a more conservative approach compared to the use of AF=33 based on current USEPA guidance.



Conclusion

The 2020 monitoring results show that TCE was detected in one SS sample at a concentration greater than the ODH SS screening level; however, the TCE concentrations in IA samples were less than the ODH IA screening level, indicating that potential VI is being mitigated. All IA sample results did not contain any VOC at concentrations greater than the ODH IA screening levels. The SS soil gas vacuum readings, along with the IA sample results, indicate that the SSDS is effectively depressurizing the SS beneath the building and addressing potential VI.

GHD plans to continue monitoring system performance (vacuum readings), and collect IA and SS samples annually to ensure acceptable system operation conditions. In addition, GHD will inspect the vacuum blower operation on a quarterly basis and replace blowers as needed.

If you have questions related to the sampling or on-going site investigation, please do not hesitate to contact the undersigned.

GHD

A handwritten signature in blue ink that reads "Julian Hayward".

Julian Hayward

A handwritten signature in blue ink that reads "Valerie Chan".

Valerie Chan

VC/cb/1

Encl.

cc: Robert Thompson – USEPA Remedial Program Manager
 Tamara McPeak – Ohio EPA, Site Coordinator

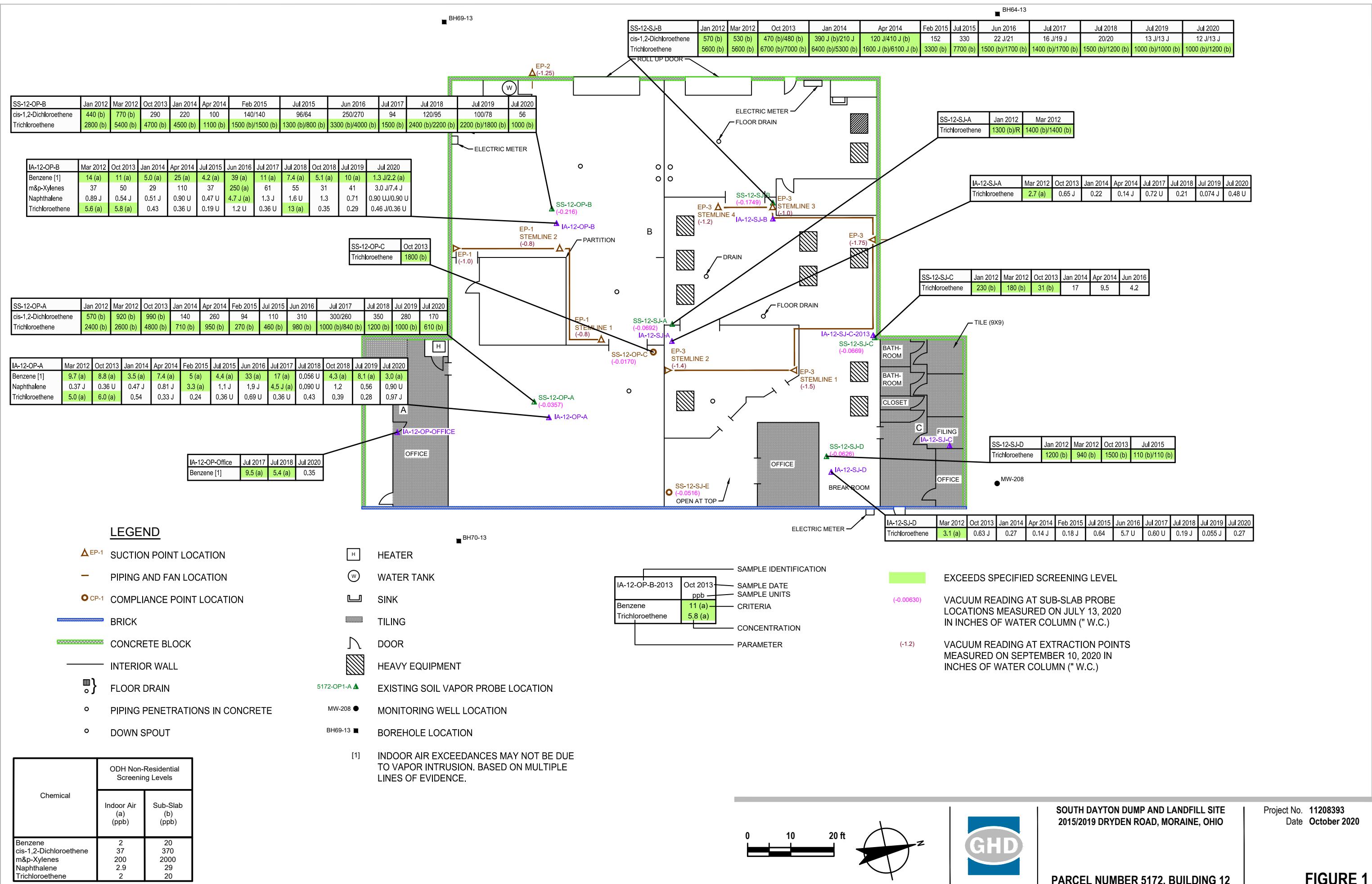


Table 1

**Summary of Building 12 - S and J Precision
Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2020**

Sample Location:																	
Sample ID:																	
Date																	
Parameters	ODH Non-Residential Screening Levels																
	Sub-Slab Soil Gas	Indoor Air	a	b													
Units					IA-12-SJ-A IA-38443-030712-JC-111 3/7/2012	IA-12-SJ-A IA-38443-102413-GL-012 10/24/2013	IA-12-SJ-A IA-38443-011714-GL-015 1/17/2014	IA-12-SJ-A IA-38443-040214-JT-004 4/2/2014	IA-12-SJ-A IA-38443-071317-GL-028 7/13/2017	IA-12-SJ-A IA-38443-071318-JC-015 7/13/2018	IA-12-SJ-A IA-38443-071819-GL-029 7/13/2018	IA-12-SJ-A IA-38443-071819-GL-029 7/18/2019	IA-12-SJ-A IA-11208393-071420-JC-004 7/14/2020	IA-12-SJ-A IA-38443-102413-GL-012 7/14/2020	IA-12-SJ-B IA-38443-102413-GL-015 10/24/2013	IA-12-SJ-B IA-38443-021815-GL-011 2/18/2015	IA-12-SJ-B IA-38443-071315-6L-003 7/13/2015
Volatile Organic Compounds																	
1,1-Dichloroethane	ppbv	160	16	0.026 U	0.13 U	0.026 U	0.026 U	0.52 U	0.026 U	0.026 U	0.35 U	0.13 U	0.47 U	0.026 U			
Benzene	ppbv	20	2	0.22	0.34 J	0.20	0.28	1.1 U	0.36	0.35	0.75 U	0.31 J	1.0 U	0.24			
Chloroform (Trichloromethane)	ppbv	800	80	0.066 J	0.19 U	0.038 U	0.038 U	0.76 U	0.065 J	0.086 J	0.51 U	0.19 U	0.69 U	0.085 J			
cis-1,2-Dichloroethene	ppbv	370	37	0.077 J	0.30 U	0.060 U	0.060 U	1.2 U	0.060 U	0.060 U	0.80 U	0.30 U	1.1 U	0.060 U			
Ethylbenzene	ppbv	2500	250	0.17 J	1.1	0.77	6.1	6.6	1.1	0.68	3.1	1.1	15	2.7			
m&p-Xylenes	ppbv	2000	200	0.58	3.6	2.6	14	23	3.7	2.7	13	3.3	41 J	7.9			
Naphthalene	ppbv	29	2.9	0.12 J	0.45 U	0.090 UJ	0.097 J	1.8 U	0.090 U	0.29 J	1.2 U	0.45 U	1.6 U	0.70			
o-Xylene	ppbv	2000	200	0.25	1.2	0.80	2.7	5.5	1.3	0.87	2.9	1.1	9.4	3.3			
Tetrachloroethene	ppbv	250	25	0.62	0.40 J	0.33	0.41	0.80 U	6.4	4.9	0.91 J	0.43 J	0.73 U	0.58			
Trichloroethylene	ppbv	20	2	2.7 ^b	0.65 J	0.22	0.14 J	0.72 U	0.21	0.074 J	0.48 U	0.55 J	1.4 J	0.20			
Vinyl chloride	ppbv	20	2	0.071 U	0.36 U	0.071 U	0.071 U	1.4 U	0.071 U	0.071 U	0.95 U	0.36 U	1.3 U	0.071 U			

Notes:

- J Estimated concentration
- JN Tentatively identified compound, estimated concentration
- NJ Tentatively identified compound, estimated concentration
- R Rejected
- U Not detected at the associated reporting limit
- UJ Not detected; associated reporting limit is estimated
- 1.0** Value greater than ODH Non-Residential Screening Level

Table 1

**Summary of Building 12 - S and J Precision
Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2020**

Sample Location:	IA-12-SJ-B	IA-12-SJ-C	IA-12-SJ-C	IA-12-SJ-C-2012	IA-12-SJ-C-2013	IA-12-SJ-C-2013							
Sample ID:	IA-38443-061616-GL-016	IA-38443-102413-GL-011	IA-38443-011714-GL-016	IA-38443-040214-JT-005	IA-38443-061616-GL-018	IA-38443-071317-GL-030	IA-38443-071318-JC-017	IA-38443-071819-GL-031	IA-11208393-071420-JC-006	IA-38443-030712-JC-114	IA-38443-071317-GL-029	IA-38443-071318-JC-018	
Date	6/16/2016	10/24/2013	1/17/2014	4/2/2014	6/16/2016	7/13/2017	7/13/2018	7/18/2019	7/14/2020	3/7/2012	7/13/2017	7/13/2018	
Parameters													
	Units												
Volatile Organic Compounds													
1,1-Dichloroethane	ppbv	3.8 U	0.13 U	0.026 U	0.026 U	1.6 U	0.52 U	0.026 U	0.10 U	0.35 U	0.026 U	0.47 U	0.026 U
Benzene	ppbv	8.1 U	0.34 J	0.21	0.30	3.5 U	1.1 U	0.36	0.23 J	0.75 U	0.18 J	1.0 U	0.38
Chloroform (Trichloromethane)	ppbv	5.5 U	0.19 U	0.038 U	0.038 U	2.4 U	0.76 U	0.082 J	0.15 U	0.51 U	0.049 J	0.69 U	0.065 J
cis-1,2-Dichloroethene	ppbv	8.7 U	0.30 U	0.060 U	0.060 U	3.8 U	1.2 U	0.060 U	0.24 U	0.80 U	0.060 U	1.1 U	0.060 U
Ethylbenzene	ppbv	9.9 U	1.5	0.77	5.2	4.3 U	15	1.1	0.37 J	3.1	0.094 J	8.0	1.1
m&p-Xylenes	ppbv	17 U	4.4	2.5	12	9.7 J	54	4.0	1.4	11	0.29	27	3.8
Naphthalene	ppbv	13 U	0.45 U	0.11 J	0.097 J	5.6 U	1.8 U	0.45 J	0.36 UJ	1.2 U	0.090 UJ	1.6 U	0.23 J
o-Xylene	ppbv	8.8 U	1.2	0.69	2.0	3.8 U	13	1.5	0.45 J	2.9	0.12 J	6.4	1.4
Tetrachloroethylene	ppbv	5.8 U	0.60 J	0.36	0.39	2.5 U	0.80 U	4.9	3.5	0.69 J	0.41	0.73 U	6.6
Trichloroethylene	ppbv	5.2 U	0.69 J	0.25	0.15 J	2.3 U	0.72 U	0.20	0.14 U	0.48 U	1.6	0.65 U	0.18 J
Vinyl chloride	ppbv	10 U	0.36 U	0.071 U	0.071 U	4.4 U	1.4 U	0.071 U	0.28 UJ	0.95 U	0.071 U	1.3 U	0.071 U

Notes:

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Table 1

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Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2020**

Sample Location:	IA-12-SJ-C-2013	IA-12-SJ-C-2013	IA-12-SJ-D	IA-12-SJ-D	IA-12-SJ-D									
Sample ID:	IA-38443-071819-GL-028	IA-11208393-071420-JC-005	IA-38443-030712-JC-116	IA-38443-102413-GL-014	IA-38443-011714-GL-012	IA-38443-040214-JT-006	IA-38443-021815-GL-012	IA-38443-071315-6L-006	IA-38443-061616-GL-020	IA-38443-071317-GL-031	IA-38443-071318-JC-016	IA-38443-071819-GL-030		
Date	7/18/2019	7/14/2020	3/7/2012	10/24/2013	1/17/2014	4/2/2014	2/18/2015	7/13/2015	6/16/2016	7/13/2017	7/13/2018	7/18/2019		
Parameters														
	Units													
Volatile Organic Compounds														
1,1-Dichloroethane	ppbv	0.026 U	0.35 U	0.026 U	0.13 U	0.026 U	0.026 U	0.026 U	0.026 U	4.1 U	0.43 U	0.026 U	0.026 U	0.026 U
Benzene	ppbv	0.28	0.75 U	0.21	0.32 J	0.25	0.25	0.28	0.22	8.9 U	1.1 J	0.36	0.27	
Chloroform (Trichloromethane)	ppbv	0.085 J	0.51 U	0.074 J	0.19 U	0.038 U	0.038 U	0.038 U	0.065 J	6.0 U	0.63 U	0.072 J	0.083 J	
cis-1,2-Dichloroethene	ppbv	0.060 U	0.80 U	0.093 J	0.30 U	0.060 U	0.060 U	0.060 U	0.060 U	9.5 U	1.0 U	0.060 U	0.060 U	
Ethylbenzene	ppbv	0.72	2.8	0.17 J	1.1	0.70	4.7	9.3	2.9	11 U	18	1.0	0.62	
m&p-Xylenes	ppbv	2.8	11	0.51	3.3	2.3	11	24 J	8.1	19 U	60	3.8	2.3	
Naphthalene	ppbv	0.24 J	1.2 U	0.090 UJ	0.45 U	0.090 UJ	0.13 J	0.090 U	0.39 J	14 UJ	1.5 U	0.48 J	0.33 J	
o-Xylene	ppbv	0.84	2.7	0.23	1.0	0.64	1.8	5.4	3.0	9.7 U	14	1.3	0.73	
Tetrachloroethene	ppbv	5.1	1.0 J	0.67	0.37 J	0.36	0.35	0.24	0.45	6.3 U	0.74 J	5.9	4.2	
Trichloroethene	ppbv	0.26	0.48 U	3.1 ^b	0.63 J	0.27	0.14 J	0.18 J	0.64	5.7 U	0.60 U	0.19 J	0.055 J	
Vinyl chloride	ppbv	0.071 U	0.95 U	0.071 U	0.36 U	0.071 U	0.071 U	0.071 U	0.071 U	11 U	1.2 U	0.071 U	0.071 UJ	

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Table 1

**Summary of Building 12 - S and J Precision
Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2020**

Sample Location:	IA-12-SJ-D	OA-12	OA-12	OA-12-OP	OA-12-OP	OA-12-OP-2015							
Sample ID:	IA-11208393-071420-JC-003	OA-38443-102413-GL-013	OA-38443-011714-GL-018	OA-38443-031512-JC-214	OA-38443-040314-JT-012	OA-38443-021815-GL-017	OA-38443-071315-6L-007	OA-38443-061516-GL-013	OA-38443-071317-GL-038	OA-38443-071318-JC-019	OA-38443-071819-GL-032	OA-11208393-071420-JC-007	
Date	7/14/2020	10/24/2013	1/17/2014	3/15/2012	4/3/2014	2/18/2015	7/13/2015	6/15/2016	7/13/2017	7/13/2018	7/18/2019	7/14/2020	
Parameters													
	Units												
Volatile Organic Compounds													
1,1-Dichloroethane	ppbv	0.026 U	0.026 U	0.026 U	0.026 U	0.026 UJ	0.026 U	0.026 U					
Benzene	ppbv	0.22	0.12 J	0.23	0.22	0.33	0.15 J	0.12 J	0.19 J	0.14 J	0.25	0.78	0.10 J
Chloroform (Trichloromethane)	ppbv	0.051 J	0.038 U	0.038 U	0.074 J	0.038 U	0.038 UJ	0.038 U	0.038 U	0.038 U	0.038 U	0.078 J	0.038 U
cis-1,2-Dichloroethene	ppbv	0.060 U	0.060 UJ	0.060 U	0.060 U								
Ethylbenzene	ppbv	5.8	0.20	0.068 U	0.068 U	0.13 J	0.068 UJ	0.084 J	0.15 J	0.11 J	0.15 J	0.58	0.071 J
m&p-Xylenes	ppbv	26	0.74	0.12 U	0.12 U	0.44	0.12 UJ	0.32	0.43	0.45	0.54	2.6	0.24
Naphthalene	ppbv	0.090 UJ	0.090 U	0.090 U	0.090 U	0.090 UJ	0.090 U	0.090 UJ	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
o-Xylene	ppbv	5.8	0.23	0.061 U	0.061 U	0.17 J	0.061 UJ	0.12 J	0.15 J	0.16 J	0.21	0.76	0.087 J
Tetrachloroethene	ppbv	1.2	0.040 U	0.040 U	0.057 J	0.040 U	0.040 UJ	0.040 U	0.040 U	0.062 J	0.059 J	0.13 J	0.53
Trichloroethylene	ppbv	0.27	0.041 J	0.054 U	0.10 J	0.036 U	0.036 UJ	0.036 U	0.078 J				
Vinyl chloride	ppbv	0.071 U	0.071 UJ	0.071 U	0.071 U								

Notes:

J Estimated concentration

JN Tentatively identified compound, estimated concentration

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R Rejected

U Not detected at the associated reporting limit

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1.0 Value greater than ODH Non-Residential Screening Level

Table 1

**Summary of Building 12 - S and J Precision
Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2020**

Sample Location:	OA-12-SJ	OA-12-SJ	OA-12-SJ	OA-12-SJ	OA-12-SJ	SS-12-SJ-A	SS-12-SJ-A	SS-12-SJ-A	SS-12-SJ-A	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B
Sample ID:	OA-38443-030712-JC-110	OA-38443-040214-JT-007	OA-38443-021815-GL-013	OA-38443-071315-6L-001	OA-38443-061616-GL-021	SS-38443-010612-JC-023	SS-38443-010612-JC-024	SS-38443-030712-JC-112	SS-38443-030712-JC-118	SS-38443-010612-JC-025	SS-38443-030712-JC-113	SS-38443-102413-GL-008
Date	3/7/2012	4/2/2014	2/18/2015	7/13/2015	6/16/2016	1/6/2012	1/6/2012	3/7/2012	3/7/2012	1/6/2012	3/7/2012	10/24/2013
Parameters	Units											
Volatile Organic Compounds												
1,1-Dichloroethane	ppbv	0.026 U	0.026 U	0.026 UJ	0.026 U	R	3.5 U	1.8 U	1.8 U	9.0 U	5.8 U	8.7 U
Benzene	ppbv	0.056 U	0.33	0.29 J	0.14 J	R	1.8 U	3.9 U	4.0 U	4.6 U	12 U	19 U
Chloroform (Trichloromethane)	ppbv	0.038 U	0.11 J	0.038 UJ	0.038 U	R	8.8 J	9.5 J	9.7 J	25 J	32 J	37 J
cis-1,2-Dichloroethene	ppbv	0.060 U	0.060 U	0.060 UJ	0.060 U	R	26	23	24	570 ^a	530 ^a	470 ^a
Ethylbenzene	ppbv	0.068 U	0.17 J	0.098 J	0.068 U	R	2.2 U	4.8 U	4.8 U	5.6 U	15 U	23 U
m&p-Xylenes	ppbv	0.12 U	0.54	0.27 J	0.18 J	R	4.8 U	8.4 U	8.5 U	12 U	27 U	40 U
Naphthalene	ppbv	0.090 UU	0.090 U	0.090 UU	0.090 U	R	8.6 U	6.3 U	6.4 U	22 UU	20 UJ	30 U
o-Xylene	ppbv	0.061 U	0.21	0.080 J	0.067 J	R	2.2 U	4.3 U	4.3 U	5.6 U	14 U	21 U
Tetrachloroethene	ppbv	0.040 U	0.040 U	0.040 UJ	0.058 J	R	5.8 J	6.9 J	7.0 J	9.2 J	10 J	13 U
Trichloroethene	ppbv	0.036 U	0.036 U	0.036 UJ	0.44	R	1300 ^a	1400 ^a	1400 ^a	5600 ^a	5600 ^a	6700 ^a
Vinyl chloride	ppbv	0.071 U	0.071 U	0.071 UJ	0.071 U	R	2.9 U	5.0 U	5.0 U	7.4 U	16 U	24 U

Notes:

- J Estimated concentration
- JN Tentatively identified compound, estimated concentration
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- 1.0** Value greater than ODH Non-Residential Screening Level

Table 1

**Summary of Building 12 - S and J Precision
Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2020**

Sample Location:	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	
Sample ID:	SS-38443-102413-GL-009	SS-38443-011714-GL-013	SS-38443-011714-GL-014	SS-38443-040214-JT-001	SS-38443-040214-JT-002	SDD-SS-12SJB-0215	SS-38443-021815-GL-010	SDD-SS-12SJB-0715	SS-38443-071315-6L-002	SS-38443-061616-GL-014	SS-38443-061616-GL-015	SS-38443-071317-GL-026			
Date	10/24/2013	1/17/2014	1/17/2014	4/2/2014	4/2/2014		2/18/2015	2/18/2015	7/13/2015	7/13/2015	6/16/2016	6/16/2016			
Parameters															
Units															
Volatile Organic Compounds															
1,1-Dichloroethane	ppbv	8.2 U	6.2 U	1.1 U	3.0 U	14 U	0.27 U	0.026 U	44 U	17 U	4.7 U	1.8 U	2.4 U		
Benzene	ppbv	18 U	13 U	2.4 U	6.5 U	29 U	0.52	0.43	56 U	38 U	10 U	3.8 U	5.1 U		
Chloroform (Trichloromethane)	ppbv	38 J	38 J	19 J	10 J	36 J	19	14	36 U	46 J	6.8 U	4.5 J	4.9 U		
cis-1,2-Dichloroethene	ppbv	480 ^a	390 J ^a	210 J	120 J	410 J ^a	152	110	210	330	22 J	21	16 J		
Ethylbenzene	ppbv	21 U	16 U	2.9 U	7.8 U	36 U	4.1	4.0	41 U	46 U	12 U	4.6 U	6.2 U		
m&p-Xylenes	ppbv	38 U	29 U	5.1 U	14 U	63 U	11.7	11 J	82 U	81 U	22 U	8.2 U	11 U		
Naphthalene	ppbv	28 U	22 U	3.8 U	10 U	47 U	0.69 U	0.090 U	34 U	60 U	16 U	6.1 UJ	8.2 U		
o-Xylene	ppbv	19 U	15 U	2.6 U	7.0 U	32 U	2.7	2.5	41 U	41 U	11 U	4.2 U	5.6 U		
Tetrachloroethene	ppbv	14 J	14 J	7.3 J	4.6 U	21 U	9.8	8.1	26 U	27 U	43	40	43		
Trichloroethene	ppbv	7000 ^a	6400 ^a	5300 ^a	1600 J ^a	6100 J ^a	3300 ^a	2000 ^a	5700 ^a	7700 ^a	1500 ^a	1700 ^a	1400 ^a		
Vinyl chloride	ppbv	22 U	17 U	3.0 U	8.2 U	37 U	0.14 U	0.071 U	70 U	48 U	13 U	4.8 U	6.5 U		

Notes:

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- JN Tentatively identified compound, estimated concentration
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Table 1

**Summary of Building 12 - S and J Precision
Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2020**

Sample Location:	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-C	SS-12-SJ-C	SS-12-SJ-C	SS-12-SJ-C	SS-12-SJ-C	SS-12-SJ-C
Sample ID:	SS-38443-071317-GL-027	SS-38443-071318-JC-013	SS-38443-071318-JC-014	SS-38443-071819-GL-026	SS-38443-071819-GL-027	SS-11208393-071420-JC-001	SS-11208393-071420-JC-002	SS-38443-010612-JC-026	SS-38443-030712-JC-115	SS-38443-102413-GL-010	SS-38443-011714-GL-017	SS-38443-040214-JT-003	SS-12-SJ-C	SS-12-SJ-C
Date	7/13/2017	7/13/2018	7/13/2018	7/18/2019	7/18/2019	7/14/2020	7/14/2020	1/6/2012	3/7/2012	10/24/2013	1/17/2014	4/2/2014	SS-12-SJ-C	SS-12-SJ-C
Parameters	Units												SS-12-SJ-C	SS-12-SJ-C
Volatile Organic Compounds														
1,1-Dichloroethane	ppbv	2.7 U	0.026 U	0.026 U	2.7 U	2.9 U	2.7 U	0.35 U	0.26 U	0.052 U	0.052 U	0.052 U	0.026 U	0.026 U
Benzene	ppbv	5.9 U	0.62	0.60	5.8 U	6.3 U	5.9 U	0.18 U	0.56 U	0.12 J	0.15 J	0.15 J	0.14 J	0.14 J
Chloroform (Trichloromethane)	ppbv	5.8 U	3.4	3.4	3.9 U	4.3 U	4.0 U	3.9 U	0.79 J	0.70 J	0.16 J	0.076 U	0.071 J	0.071 J
cis-1,2-Dichloroethene	ppbv	19 J	20	20	13 J	13 J	12 J	13 J	0.65 J	0.60 U	0.18 J	0.12 U	0.060 U	0.060 U
Ethylbenzene	ppbv	7.1 U	0.068 U	0.068 U	7.0 U	7.7 U	7.2 U	0.22 U	0.68 U	0.14 U	0.23 J	0.23 J	0.068 U	0.068 U
m&p-Xylenes	ppbv	13 U	0.21	0.16 J	12 U	14 U	13 U	0.48 U	1.2 U	0.43	0.79	0.79	0.12 U	0.12 U
Naphthalene	ppbv	9.4 U	0.090 U	0.090 U	9.3 U	10 U	9.5 U	0.86 U	0.90 UU	0.18 U	0.18 U	0.18 U	0.090 U	0.090 U
o-Xylene	ppbv	6.4 U	0.11 J	0.065 J	6.3 U	6.9 U	6.5 U	0.22 U	0.61 U	0.14 J	0.27 J	0.27 J	0.061 U	0.061 U
Tetrachloroethene	ppbv	49	52	39	33	34	37	40	28	23	4.5	3.0	1.5	1.5
Trichloroethene	ppbv	1700 ^a	1500 ^a	1200 ^a	1000 ^a	1000 ^a	1000 ^a	1200 ^a	230 ^a	180 ^a	31 ^a	17	9.5	9.5
Vinyl chloride	ppbv	7.4 U	0.071 U	0.071 U	7.3 U	8.0 U	7.5 U	7.3 U	0.29 U	0.71 U	0.14 U	0.14 U	0.071 U	0.071 U

Notes:

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Table 1

**Summary of Building 12 - S and J Precision
Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2020**

Sample Location:	SS-12-SJ-C	SS-12-SJ-D	SS-12-SJ-D	SS-12-SJ-D	SS-12-SJ-D	SS-12-SJ-D
Sample ID:	SS-38443-061616-GL-017	SS-38443-010612-JC-027	SS-38443-030712-JC-117	SS-12-SJ-D	SS-38443-071215-6L-004	SS-38443-071215-6L-005
Date	6/16/2016	1/6/2012	3/7/2012	10/24/2013	7/12/2015	7/12/2015
Parameters	Units					
Volatile Organic Compounds						
1,1-Dichloroethane	ppbv	0.67	1.1 U	2.0 U	--	0.13 U
Benzene	ppbv	0.15 J	0.54 U	4.2 U	--	0.28 U
Chloroform (Trichloromethane)	ppbv	0.096 J	24	23	--	0.69 J
cis-1,2-Dichloroethene	ppbv	0.12 U	240	200	--	24
Ethylbenzene	ppbv	0.15 J	0.66 U	5.2 U	--	0.34 U
m&p-Xylenes	ppbv	0.48	1.4 U	9.1 U	--	0.60 U
Naphthalene	ppbv	6.2	2.6 U	6.8 U	--	0.45 U
o-Xylene	ppbv	0.21 J	0.66 U	4.6 U	--	0.31 U
Tetrachloroethene	ppbv	0.92	3.5 J	3.2 J	--	0.68 J
Trichloroethene	ppbv	4.2	1200 ^a	940 ^a	1500 ^a	110 ^a
Vinyl chloride	ppbv	0.14 U	0.87 U	5.4 U	--	0.36 U
						0.71 U

Notes:

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1.0 Value greater than ODH Non-Residential Screening Level